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ABSTRACT

A composite beam is disclosed. The beam includes a beam
(5), a solid slab or a composite slab (29) positioned on
5 and supported by the beam, the solid slab and the composite
slab including a slab section and a plurality of concrete
ribs (21) extending from the slab section. The beam also
includes at least one shear connector (15) positioned in at
least one of the concrete ribs and connecting the solid
10 slab or the composite slab to the beam. The beam also
includes a reinforcing component (19) embedded in at least
one concrete rib that includes an embedded shear connector
or connectors. The reinforcing component is in the form of
a mesh that includes line wires (41) and cross wires (43)
15 that are connected together at the intersections of the
wires.